

Title (en)
TRAVELING BODY DEVICE

Title (de)
BEWEGTKÖRPERVORRICHTUNG

Title (fr)
DISPOSITIF DE CORPS MOBILE

Publication
EP 3093727 A4 20171011 (EN)

Application
EP 15735162 A 20150109

Priority
• JP 2014002708 A 20140109
• JP 2015050487 W 20150109

Abstract (en)
[origin: EP3093727A1] A vacuum cleaner to be provided is capable of having a simple structure, reducing power consumption, and making interference with a different unit unlikely. A charging unit (12) includes a light emitting part (55L) and a light emitting part (55R) arranged in positions separated from each other. The light emitting parts (55L) and (55R) transmit respective guide signals to guide a vacuum cleaner body (11). The charging unit (12) includes a charging unit controller (58) to make the light emitting parts (55L) and (55R) transmit the respective guide signals that are same guide signals and transmitted according to respective timings. The vacuum cleaner body (11) includes a light emitting part (33) to transmit a demand signal. The vacuum cleaner body (11) includes a light receiving part (32) capable of receiving the respective guide signals transmitted from the light emitting parts (55L) and (55R). A controller (37) makes the body case (20) travel toward the charging unit (12) depending on respective receiving statuses at the light receiving part (32) of the two guide signals transmitted from the light emitting parts (55L) and (55R) according to the respective timings.

IPC 8 full level
G05D 1/02 (2006.01); **A47L 9/28** (2006.01)

CPC (source: EP KR US)
A47L 9/28 (2013.01 - KR); **A47L 9/2815** (2013.01 - EP KR US); **A47L 9/2852** (2013.01 - EP KR US); **A47L 11/4011** (2013.01 - US); **A47L 11/4013** (2013.01 - US); **A47L 11/4041** (2013.01 - US); **A47L 11/4069** (2013.01 - US); **B25J 9/0003** (2013.01 - KR); **B25J 11/0085** (2013.01 - KR); **B25J 19/02** (2013.01 - KR); **G05D 1/0088** (2024.01 - US); **G05D 1/0225** (2024.01 - EP US); **G05D 1/0242** (2024.01 - EP US); **A47L 2201/022** (2013.01 - US); **A47L 2201/04** (2013.01 - EP KR US)

Citation (search report)
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• [Y] US 2008065266 A1 20080313 - KIM SANG YUN [KR]
• [Y] US 2011295447 A1 20111201 - HUNG SHIH-CHE [TW], et al
• [Y] US 6957132 B1 20051018 - RICHBURG CHRIS [US], et al
• See also references of WO 2015105176A1

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3093727 A1 20161116; **EP 3093727 A4 20171011**; **EP 3093727 B1 20200708**; CA 2935640 A1 20150716; CA 2935640 C 20180724; CN 105900033 A 20160824; CN 105900033 B 20190618; JP 2015132893 A 20150723; JP 6254446 B2 20171227; KR 101939671 B1 20190117; KR 20160053996 A 20160513; US 10048695 B2 20180814; US 2016327954 A1 20161110; WO 2015105176 A1 20150716

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